Smart Equipment™ Controls Quick Start Guide



General

Before you begin configuring your unit controller ensure that you understand the application and identify the equipment configuration.

- · Constant Volume
- Variable Air Volume (VAV)
- Economizer
- · Hot Gas Reheat
- · Dual Stage
- · Four Stage
- Heat Pump
- · Thermostat Controls
- Network Sensor Control
- · Space Sensor Control
- · Discharge Air Control

Understanding the LCD

After you apply power to your rooftop unit (RTU), a start-up sequence begins on the unit control board (UCB) LCD. When the controller is ready, the screen is blank if no faults are present. Use the joystick and the two push buttons below the LCD, to navigate through the menus. See Figure 1.



Figure 1 - Joystick and push buttons on the UCB

Move the joystick up and down to move the > cursor and scroll through the selections in the active section of the menu.

Each menu selection is either a sub-menu or a property. You can perform the following actions.

- Press ENTER to display the items in the sub-menu or the values of the selected property.
- Press ENTER to display the current value of the selected property.
- Move the joystick up or down to display the values of other properties.

See Figure 2 and Smart Equipment™ 3.4 UCB navigation examples on page 6

>Status Alarms

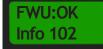
Summary Commission Controller

Update Details Self Test View Results

Figure 2 - UCB top level menu

IMPORTANT

Unit control boards with part numbers SE-SPU1001-5, SE-SPU1011-5, SE-SPU1002-5, SE-SPU1012-5 have a different hardware component than previous board versions. This new component does not allow downgrading of these boards to any firmware older than 3.3.1.186. If a user attempts to install an older version, the message Info 1025 displays on the LCD screen to indicate that it cannot accept an older firmware version.



FWU:OK Info 1025

Start-up sequence

When you apply power to the unit the UCB begins the following start-up sequence. During the start-up sequence, the joystick, ENTER button, and CANCEL button do not function.

1. The LCD scrolls the text Johnson Controls on the top line and JCI on the bottom line (Figure 3).

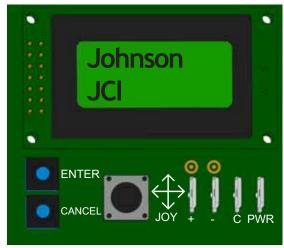


Figure 3 - Start-up display

- The display backlight and green power LED light and remain lit as long as power is applied to the C and 24V terminals.
- 3. The red fault LED lights, goes off briefly, and then flashes throughout the start-up sequence.
- 4. The green SA bus LED lights briefly.
- 5. The LCD shows a countdown on the top line.

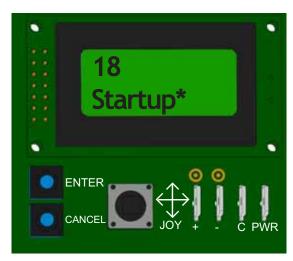


Figure 4 - Start-up countdown

After approximately 15 seconds, the green SA bus LED does one of the following.

- Lights to indicate that the UCB has not established communication and is awaiting communication from SA bus devices
- Flashes to indicate the UCB established communication with SA bus devices

After the start-up sequence finishes in 90 - 120 seconds, the display shows the current operating status. For example, idle, startup delay, or cooling on both lines if no alarm is active. The red fault LED stops flashing and turns off. The joystick, ENTER button, and CANCEL button are operational.

Commissioning

Figure 5 shows the Commissioning view second level menus. The Commissioning view consists of 3 three main menus and several sub-menus.



Figure 5 - Commissioning view: second level menus

Commissioning view sub-menus

Your equipment configuration determines which menus appear in the Commissioning view.

- Use the joystick to move between the menu options.
- Press ENTER to select an option.

See the Commissioning menu on page 10.

See the pages 8 to 18 for a detailed table of all menus, submenus, and properties.

Validating your configuration

Use the Details > Service menu to ensure that your configuration parameters are correct. This view shows the input values for each input. You can view the Sensors and Coil Sensors values.

If no input value appears, the display shows \mathtt{No} Input. This is a convenient way to ensure that all your configuration parameters are set and reading properly.

Important: Save your configuration parameters to a flash drive using the Update > Backup menu before you perform a firmware update.

Connecting your flash drive for a firmware update

Connect your flash drive to the USB port on the UCB.
 USB: Wait appears on the LCD. See Figure 6.

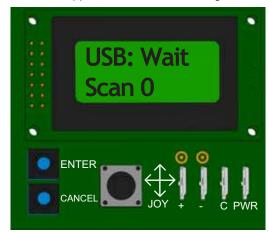


Figure 6 - USB connection display

Note: If you do not see USB: Wait after you connect your flash drive to the UCB, ensure that it is properly connected. If it is properly connected and you do not see USB: Wait, your flash drive may not be compatible with the UCB or is defective.

After a few seconds, the top line of the LCD displays ${\tt USB:}$ ${\tt OK}$ (Figure 7).

The Scan number indicates the files and folders in the top level of the flash drive that are compatible with the UCB.

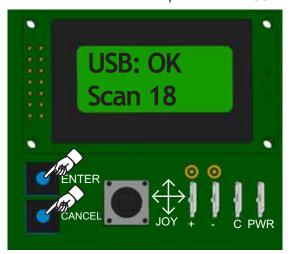


Figure 7 - USB scan

Keep the flash drive connected to the UCB after the scan completes.

You can press the ENTER button, CANCEL button, or move the joystick up or down to navigate through the display menu.

Performing a system configuration backup

- 1. Connect your flash drive to the USB port on the UCB.
- 2. When USB OK appears on the LCD, use the joystick on the UCB to select **Update** and press ENTER.
- 3. Select Backup and press ENTER. See Figure 8.

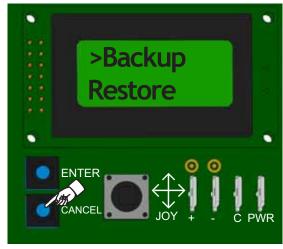


Figure 8 - Backup menu

BKP: Wait appears while the backup is in progress. During the backup procedure, the colon (:) flashes on the top line and the percentage increases on the bottom line of the display. The backup completes in approximately 30 seconds.



Figure 9 - Backup complete

4. When BKP:OK appears on the LCD and the percentage shows 100, you may remove the flash drive from the USB port.

After the backup completes, a comma separated value (.csv) restoration file is created in the top level of the flash drive. The file name is drawn from the date and time settings in the UCB at the time you create the file. The restoration file size is generally less than 30 KB. Figure 10 shows an example of the .csv file name structure.

Restoration File Name Structure



Figure 10 - Restoration file name structure

Use the Upgrade > Restore menu to restore the backup file to the unit and retrieve the configuration after you perform an upgrade or make setpoint changes.

Use the partial cloning feature to take the configuration parameters from the backup file from one unit and update the data on another unit. Use the Upgrade > Part Clone menu on the unit that you want to update.

Note: Only use the Full Cloning feature when you have to replace the UCB board.

Updating Smart Equipment™ software Auto update - FWU: firmware update

In the release of version 3.3.1.186¹, an auto update feature was added called firmware update (FWU). This feature determines if there are any mismatches in the firmware versions on all applicable control boards on the unit. For example, on the Economizer, FDD1, FDD2, or 4-Stage boards.

If there are any mismatches, the auto update process begins and automatically pushes the 3.4.1.314 version to all applicable boards on the unit. This may take 7 to 30 minutes depending on the number of control boards.

Note: Do not use the joystick, ENTER button, or CANCEL button during the auto update process.

The auto update feature required a change to the memory size on the UCB. You can install the 3.4.1.314 firmware revision in an older board with a 4 MB memory, but it cannot perform the auto update function.²

If the auto update fails for any reason, the LCD displays Firmware mismatch and the fault LED blinks. If this occurs, you must manually update the firmware. See *Performing a manual update* on page 4

Loss of power

If loss of power occurs during the auto update process, the UCB re-attempts the update when the power is restored. The following sequence is performed.

- 90 seconds after the normal startup sequence is complete the UCB determines whether there are still firmware mismatches.
- The UCB attempts the auto update up to a maximum of five times.

If the auto update is unsuccessful after five attempts, you must manually update the firmware. *Performing a manual update* on page 4

Performing a manual update

If you want to update a 3.1 level board (8 MB) with an older 3.0 level firmware, you must perform the update twice.

You require a flash drive with the appropriate software file ending in .pkg to perform the update. You must save the file at the top level of the flash drive.

See Connecting your flash drive for a firmware update on page 3.



Figure 11 - Display update

- 1. Connect your flash drive to the USB port on the UCB.
- When USB OK appears on the LCD, use the joystick on the UCB to select **Update** and press ENTER.

The first line displays View Ver.

- a. If you want to verify the version in the UCB, push the ENTER button. The current version is displayed.
- Press the CANCEL button to return to the Update menu.
- 3. Use the joystick to select **Backup** and press ENTER.
- 4. When the top line of the display shows BKP: OK and the second line shows 100, press CANCEL to return to the Update menu and press ENTER.
- 5. Use the joystick to select **LoadFirm** and press ENTER.
- The list of firmware versions appears, select 3.4.1.314.secusb.pkg or the firmware version required and press ENTER.

^{1.} You must perform the firmware update twice back to

REV. G indicates a 4MB board. REV. H indicates a 8MB board.

If the firmware file is not displayed, use the joystick to select the appropriate file.

7. When Confirm? appears on the LCD, press ENTER.

The firmware may take 5 to 15 minutes to load, FWU WAIT appears on the LCD screen. The UCB reboots during the process and the LCD goes blank. When the LCD displays the main menu and the startup timer ends, the upload is finished.

- Use the joystick on the UCB to select **Update** and press ENTER.
- 9. Select Restore and press ENTER.
- 10. Select RTUxxxx.csv and press ENTER.
- 11. When Confirm? appears on the LCD, press ENTER.

The LCD displays RTR:OK and reboots. When the startup timer ends, the configuration is restored.

When the firmware update is complete, proceed with parameter checks.

Viewing the version of the economizer

The economizer board must be connected to the system to view the version.

 Use the joystick on the UCB to select Contrler and press ENTER.

The first line displays Firm.



Figure 3 - Display update

2. Use the joystick to select **SysCntIrs** and press ENTER.

The first line displays Misc.

3. Use the joystick to select **Econ** and press ENTER.

The first line displays EconMainVer.

4. Press ENTER.

The second line displays the version of software installed in the economizer.

Smart Equipment™ 3.4 UCB navigation examples

The following section details the navigation and viewing of the LCD display screen on the Smart Equipment™ control. The control is installed in various commercial Ducted Systems packaged and split system equipment. The following information provides a step-by-step demonstration on how to navigate the basic status menu and how to change basic configuration settings. The navigation steps outlined in this demonstration apply to most menus in the Smart Equipment™ control.



Understanding the Local LCD

After you apply power to your Rooftop Unit (RTU), a start-up countdown begins on the Unit Control Board (UCB) LCD. When the controller is ready, the screen is blank because no faults are present. Use the joystick and the two push buttons below the LCD, to navigate through the menus.

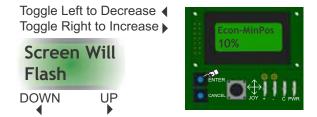
Step 1 - After the start-up countdown is complete the first screen displayed is the "Startup Delay" screen. Move Joystick. Scroll down to "Details" then press "ENTER".

Step 2 - Scroll down to "Econ" and press "ENTER".

Step 3 - "Setup and Service" will now appear. Press "ENTER".

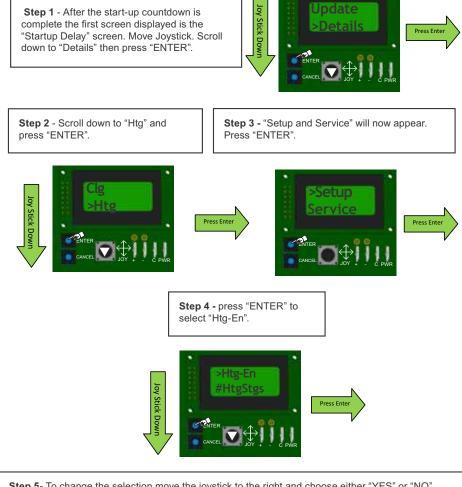
Step 4 - Scroll down to "Econ-MinPos" then press "ENTER".

Step 5- To adjust the minimum position percentage move the joystick to the right to increase and to left decrease. Then Press "ENTER". **WAIT 5-7 SECONDS FOR VALUE ONSCREEN TO UPDATE!**



Press the "Cancel" button to exit each menu level. Repeatedly pressing "Cancel" returns the menu to the first "Status, Alarms" screen.

Press the CANCEL button multiple times to exit each menu level. When the LCD returns to the Status, Alarms display the next demonstration can begin. This demonstration shows the Commissioning menu.



Step 5- To change the selection move the joystick to the right and choose either "YES" or "NO". Then Press "ENTER". **WAIT 5-7 SECONDS FOR VALUE ONSCREEN TO UPDATE!**

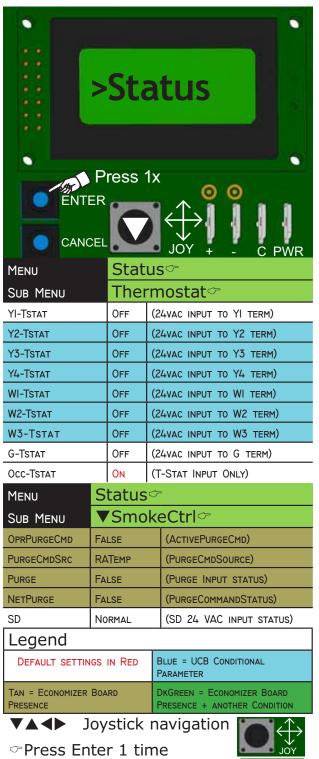




These few pages provide a simple demonstration how to navigate the menu's of the Smart Equipment[™] control containing Version 3.4 firmware. Please utilize this document along with the additional information in the Users Guide and detailed navigation menu to adjust the control to customer preferences or job specifications.

NOTE: IF OPERATING THE EQUIPMENT WITH A THERMOSTAT, THE UCB SETPOINTS AND PARAMETERS SHOULD NOT REQUIRE ALTERATION; HOWEVER, THERE MAY BE THE CASE WHERE MINIMUM OUTSIDE AIR, LEAD-LAG OR OTHER CUSTOM SETTINGS ARE REQUIRED. PLEASE READ THIS DOCUMENT IN DETAIL TO UNDERSTAND THE IMPLICATIONS OF MAKING CHANGES BEFORE PROCEEDING. IT IS STRONGLY RECOMMENDED THAT A BACKUP OF PARAMETER SETTINGS BE SAVED ON A USB DRIVE BEFORE MAKING ANY MAJOR CHANGES TO THE CONTROL!

SE UCB DISPLAY MENU GUIDE 3.4



	PRESENCE + ANOTE	HER CONDITION
stick	navigation	\leftarrow
r 1 tin	ne	Jo Jo

→ Press Enter Scroll Down Press Cancel to return to Previous Menu

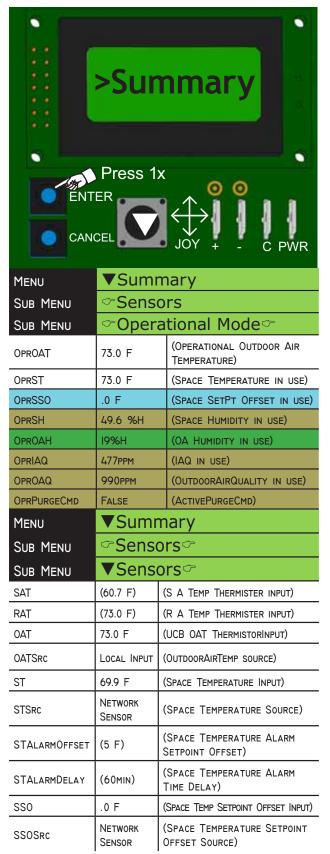


MENU	Status ~				
SUB MENU	V Status <i>▽</i>				
Unit-S	IDLE	(Unit Status)			
Econ-S	DISABLED	(ECONOMIZER STATUS)			
ExF-S	OFF-IDLE	(EXHAUST FAN STATUS)			
FAN-S	OFF-IDLE	(FAN STATUS)			
HGR-S	OFF-IDLE	(HOT GAS REHEAT STATUS)			
CLG-S	OFF-IDLE	(Cooling Status)			
DFS	Normal	(DIRTY FILTER SWITCH)			
UCB24VAC FOROUTP	.3VAC	(UCB 24VAC INPUT)			

LIENO	Status			
SUB MENU	▼SysCntlrs			
ECONCNTLR	NOT PRESENT (ECON BRD COMM STATUS)			
4STGCNTLR	NOT PRESENT	(FC BUS BACNET NETWORK ADDRESS)		
FDDMCntlr	NOT PRESENT	(REFR CIRC I-2 STATUS)		
FDDSCntlr	Not Present	(REFR CIRC 3-4 STATUS)		



MENU	VAlarms♥			
No Events	(No active alarm)			
ALARM DESCRIPTION	(MOST RECENT ALARM)			
ALARM DESCRIPTION	(2ND MOST RECENT ALARM)			
ALARM DESCRIPTION	(3RD MOST RECENT ALARM)			
ALARM DESCRIPTION	(4TH MOST RECENT ALARM)			
ALARM DESCRIPTION	(5TH MOST RECENT ALARM)			



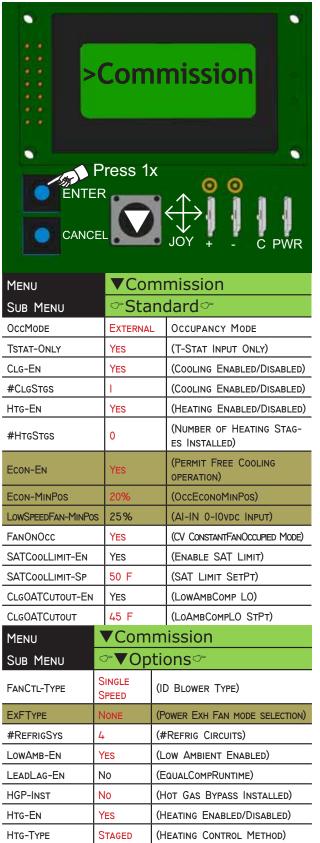
MENU		▼Summary				
SUB MENU		▽▼Sensors ▽				
SUB MENU Sensor			rs <i>[©]</i>			
SSORANGE		(3.0 F)	(SPACE TEMPERATURE SETPOINT OFFSET RANGE)			
RAH		79.4 %H	(SPACE HUMIDITY RAH INPUT)			
SHSRC		LOCAL INPUT	(SPACE HUMIDITY SOURCE)			
OAH		50.2 %H	(OUTDOOR AIR HUMIDITY INPUT)			
OAHSRC		LOCAL INPUT	(OUTDOOR AIR HUMIDITY SOURCE)			
IAQ		477PPM	(IAQ 0-I0 VDC INPUT)			
IAQSRC		LOCAL INPUT	(INDOOR AIR QUALITY SOURCE)			
OAQ		477PPM	(OAQ 0-I0VDC INPUT)			
OAQSRC		LOCAL INPUT	(OUTDOOR AIR QUALITY SOURCE)			
PurgeCmdSrc	:	RATEMP	(PurgeCmdSource)			
SAH		49%H	(SAH 0-10 VDCINPUT)			
MAT		70 F	(MIXED AIR TEMPERATURE)			
BLDGPRES		.095"/w	(Building Static Pressure)			
DCTPRS		I.50"/w	(DUCTPRES 0-5VDC INPUT)			
MENU	V	' Summai	ry			
SUB MENU	V	'Sensors				
SUB MENU	Ó	[•] Unit <i>°</i> •				
NAME	RT	Uxxxx	(I4 CHARACTER MAX)			
Model#	RT	Uxxxxx	(I4 CHARACTER MAX)			
SERIAL#	DE	FAULT_SERIAL	(I4 CHARACTER MAX)			
ModelName			(Model Name)			
Unit-S	IDL	.E	(Unit Status)			
UnitEn	ΕN	IABLE	(UNIT ENABLE)			
HowrReset	No)	(HARDWARE RESET)			
RESETLO	OF	F	(RESET LOCKOUTS)			

▼▲◆ Joystick navigation

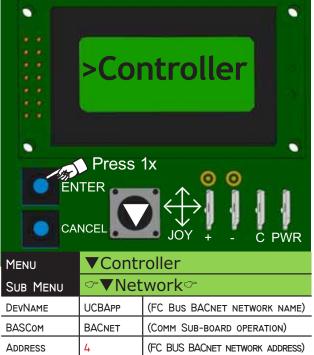
→ ▼Press Enter Scroll Down Press Cancel to return to Previous Menu



Legend				
DEFAULT SETTINGS IN RED	BLUE = UCB CONDITIONAL PARAMETER			
TAN = ECONOMIZER BOARD PRESENCE	DKGREEN = ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION			

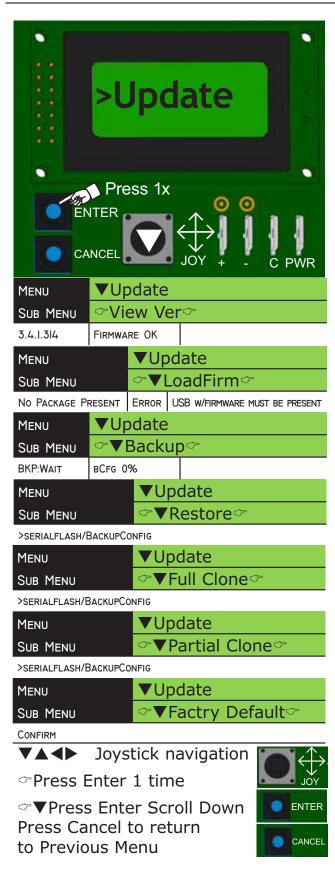


MENU		▼ Con	nmission	
SUB MENU				
SATHTGLIMIT-E	N	YES	(SA HTGLIMITENABLED)	
SATHTGLIMIT-S	P	140 F	(SA HTGLIMITSETPT)	
HTGOATCUTOUT-	-Sp	75 F	(HTGOAT CO SETPT)	
APSSETUP		None	(AIR PROVING SWITCH OPERATION)	
DFSINST		(DIRTY FIL	TER SWITCH INSTALLED)	
DVENT-MODE		DISABLED	(DMAND VENT MODE SELECT)	
HGR-EN		No	(HOT GAS REHEAT ENABLED)	
MornW-En		No	(VAVMORNWRMUPENABLE)	
#HTPUMPSTGS		0	(# OF HEAT PUMPS)	
LOWAMBFANPRE RUNCOOL	≣-	60 SEC	(LOW AMBIENT FAN PRERUN TIME	
PIDTUNRST		FALSE	(PID TUNING RESET)	
LOWAMBSTART	Г	No	(LOW AMBIENT START)	
SZVAVEN		OFF	(SINGLE ZONE VAV ENABLED)	
MENU		Comn	nission	
SUB MENU	Ø	▼Net	work Setup♡	
FcBusMode	W	RED	(FC BUS COMM MODE)	
Address	4		(FCBusBACNETNETWORKADDRESS	
DEVICELD	ı		(DEVICE OID)	
BAUDRATE	Αι	JTO	(FC BUS BAUD RATE IN USE)	
DEVNAME	U	ВАРР	(FCBusBACNETNTWRKNAME)	
ENCODETYPE		NSI X3.4 IS-ASCII)	BACNET ENCODING TYPE	
	^	·Coı	ntroller	



MENU	▼ Controller			
SUB MENU	∽▼Network∽			>
TIMEZONE	CENTRAL			
DESCRIPT				
Comm-S	WAITING FOR POLL	(F	C Bus o	COMM STATUS)
FcBusMode	WIRED	(F	C Bus C	COMM MODE)
OPRBAUDRATE	Аито	(F	C BUS I	BAUD RATE TO BE USED)
BAUDRATE	Аито	(F	C BUS I	BAUD RATE IN USE)
DEVICEID	1	(0	EVICE C	OID)
LANGUAGE	ENGLISH			
Units	IP	(u	INITS OF	MEASURE TO BE USED)
#NETSEN- SORS	1	1,	UMBER	of Network Sensors
RELEARN	FALSE	(F	RELEARN	SYSTEM)
ENCODETYPE	ISO 1064 (UCS-2)	6 B	ACNET E	ENCODING TYPE
MENU	▼ Con	itro	ller	
SUB MENU	∽Firn	าଙ		
FIRM-S	FIRMWARE	VERSI	ons OK	(FIRMWARE STATUS)
FIRMVER	3.4.1.314			(FIRMWARE VERSION)
UCBMainVer	3.4.1.314			(FIRMWARE REVISION)
UCBAPPVER	3.4.1.314			(SOFTWARE APP REV)
UCBHARDVER	001			(HARDWARE REVISION)
EconMainVer	3.4.1.314			(FIRMWARE REVISION)
EconAppVer	1223_2017	.9.6.2	255	(SOFTWARE APP REV)
EconHardVer	001			(HARDWARE REVISION)
4STGMAINVER	3.4.1.314			(FIRMWARE REVISION)
4STGAPPVER	1223_2017	.9.6.2	255	(SOFTWARE APP REV)
4STGHARDVER	001			(HARDWARE REVISION)
FDDMMAInVER	3.4.1.314			(FIRMWARE REVISION)
FDDMAppVer	1223_2017	.9.6.2	255	(SOFTWARE APP REV)
FDDMHARDVER	001			(HARDWARE REVISION)
MENU	▼ C	ont	rolle	r
SUB MENU		Ne	twor	kInputs∽
NETST			(FC BUS SPACE TEMP)	
NETSS0			(FC Bu	SSPACESETPTOFFSET)
NETSH			(FC Bu	SSPACEHUMIDITY)
NETOcc	NOT SET			
			(TEMPOCCCOMMAND)	
NETTEMPOCC	FALSE		(TEMPO	CCCOMMAND)

MENU	▼ Con	▼Controller				
SUB MENU	~▼Ne	etworkInputs©				
NETFANREQ		(FC BUSFANON REQST)				
NETOAT		(FC BUS OA TEMP)				
NETOAH		(FC Bus OA HUMIDITY)				
NETOAQ		(FC Bus OA QUALITY)				
NETPURGE		(FC BUSPURGE COMAND)				
DIRLOADSHD	YES/No	(DIRECT LOADSHED)				
REDLINE	YES/No	(REDLINE)				
MENU	▼ Cont	roller				
SUB MENU	⇒ ▼FD	D≎				
UNITTYPE						
EER						
SUBCOOLGOAL						
REFRIGTYPE						
HISIDEPORTLOC						
EVAPCOIL-TYPE						
CONDCOIL-TYPE						
InMeterDev-Type						
OUTMETERDEV-TY	PE					
UNITCAP						
FANPOWER						
SUPERHEATGOAL						
ALTITUDE						
MENU	Contro	ller				
SUB MENU	[►] ▼Time	Ċ				
TIME ZONE C	ENTRAL					
MENU	▼ Cont	roller				
SUB MENU	∽ ▼Dе	scription <i>~</i>				
CNTRLTYPE	CV	(ROOFTOP CONTROLLER TYPE)				
EQUIPTYPE	RTU	(ROOFTOP EQUIPMENT TYPE)				
	•	navigation				
Tress E	∽Press Enter 1 time					
Press Car	Press Cancel to return					
to Previo	to Previous Menu CANCE					
Legend						
DEFAULT SETTIN	DEFAULT SETTINGS IN RED BLUE = UCB CONDITIONAL PARAMETER					
TAN = ECONOMIZER PRESENCE	Board	DKGREEN = ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION				



MENU	▼ Update		
SUB MENU	▽ ▼Time ▽		
>Hour	0	(0 THROUGH 23)	
MINUTE	II	(0 THROUGH 59)	
DAY	1	(I THROUGH 3I)	
Month	1	(I THROUGH I2)	
YEAR	2000	(1900 THROUGH 2155)	
MENU	▼ Upd	ate	
SUB MENU		port Trend∽	
>USB	MISSING		
	TER K	3 1x	
CAN	TER ICEL	JOY + - C PWR	
EN	TER NCEL	JOY + - C PWR	
CAN MENU SUB MENU	TER ICEL ▼ De	JOY + - C PWR	
MENU SUB MENU OccMode	TER NCEL ▼De ▼OC EXTER- NAL UNOC-	JOY + - C PWR tails CC OCCUPANCY MODE	
MENU SUB MENU OCCMODE OCC	VDe COC EXTERNAL UNOC- CUPIED UNOC-	CCCUPANCY MODE (OCCUPANCY INPUT)	
MENU SUB MENU OCCMODE OCC OPROCC	TER NCEL De OC EXTERNAL UNOC- CUPIED UNOC- CUPIED LOCAL	OCCUPANCY MODE (OCCUPANCY INPUT) (OCCUPANCY STATUS)	
MENU SUB MENU OCCMODE OCC OPROCC OCCSRC	TER V De' COC EXTERNAL UNOC- CUPIED UNOC- CUPIED LOCAL INPUT	OCCUPANCY MODE (OCCUPANCY INPUT) (OCCUPANCY STATUS) (OCC/UNOCC STATUS SOURCE)	
MENU SUB MENU OCCMODE OCC OPROCC OCCSRC TEMPOCC TEMPOCCTIM-	TER NCEL De' COC EXTERNAL UNOC- CUPIED LOCAL INPUT DISABLE	C PWR tails C OCCUPANCY MODE (OCCUPANCY INPUT) (OCCUPANCY STATUS) (OCC/UNOCC STATUS SOURCE) (TEMPORARY OCCUPANCY INPUT) (TEMPORARY OCCUPANCY TIME-	
MENU SUB MENU OCCMODE OCC OPROCC OPROCC TEMPOCC TEMPOCCTIM- EOUT	TER NCEL De OC EXTERNAL UNOC-CUPIED UNOC-CUPIED LOCAL INPUT DISABLE 120	CCO OCCUPANCY MODE (OCCUPANCY INPUT) (OCCUPANCY STATUS) (OCC/UNOCC STATUS SOURCE) (TEMPORARY OCCUPANCY INPUT) (TEMPORARY OCCUPANCY TIME- OUT)	
MENU SUB MENU OCCMODE OCC OPROCC OCCSRC TEMPOCC TEMPOCCTIM-EOUT OFFDURUNOCC	TER NCEL V De COC EXTERNAL UNOC-CUPIED UNOC-CUPIED LOCAL INPUT DISABLE 120 NO	C PWR tails C OCCUPANCY MODE (OCCUPANCY INPUT) (OCCUPANCY STATUS) (OCC/UNOCC STATUS SOURCE) (TEMPORARY OCCUPANCY INPUT) (TEMPORARY OCCUPANCY TIME- OUT) (OFF DURING OCCUPIED)	
MENU SUB MENU OCCMODE OCC OPROCC OPROCC TEMPOCC TEMPOCCTIM-EOUT OFFDURUNOCC OPTSTRT-EN EARLYSTRTPE-	TER NCEL V De COC EXTERNAL UNOC-CUPIED UNOC-CUPIED LOCAL INPUT DISABLE 120 NO NO	COCCUPANCY MODE (OCCUPANCY MODE (OCCUPANCY INPUT) (OCCUPANCY STATUS) (OCC/UNOCC STATUS SOURCE) (TEMPORARY OCCUPANCY INPUT) (TEMPORARY OCCUPANCY TIME- OUT) (OFF DURING OCCUPIED) (OPTIMAL START ENABLED)	

MENU	▼ Details				
SUB MENU	<i></i>				
PREOCCPURGE-	60		(PRE OCCUPANCY PURGE TIME)		
PREOCCUP- SAT_SP	90		(PRE OCCUPANCY PURGE UPPER SETPOINT)		
PREOCCLOW- SAT_SP	45		(PRE (OCCUPANCY PURGE LOWER	
MENU		1	▼ Det	tails	
SUB MENU			≻▼C	lg	
SUB MENU		<	۶▼S	etup <i>©</i>	
CLG-EN		Υ	ES	(COOLING ENABLED/DISABLED)	
#CLGSTGS		ī		(# OF COOLING STAGES)	
#REFRIGSYS		4		(# of Refrig Systems)	
CLGOCC-SP		7.	2 F	(CV OCC COOLING SET POINT)	
CLGUNOCC-SP		8	5 F	(CV UNOCC COOLING SET POINT)	
CI-EN		Υ	ES	(CI 24VACOUTPUTENABLED)	
C2-EN		Υ	ES	(C2 24VAC OUTPUT ENABLED)	
C3-EN		Υ	ES	(C3 24VACOUTPUTENABLED)	
C4-EN		Υ	ES	(C4 24VACOUTPUTENABLED)	
MINRTCOOLSTG		3	MIN	(MINCOMPRUNTIME)	
CLGADAPTUNEN		Υ	ES	(COOLING AUTO TUNE ENABLE)	
LowAmb-En		N	0	(LOW AMBIENT ENABLED)	
LowAmbI00n50ff	SP	4	5 F	(LoAmbOpSeTPT)	
LEADLAG-EN		N	0	(EQUALCOMPRUNTIME)	
CLGOATCUTOUT-E	N	Υ	ES	(LOWAMBCOMP LO)	
CLGOATCUTOUT		4	5 F	(LoAmbCompLO STPT)	
SATCOOLLIMIT-EN		Υ	ES	(ENABLE SAT LIMIT)	
SATCOOLLIMIT-SP		4	5 F	(SAT LIMIT SETPT)	
HGP-INST		N	0	(HOT GAS BYPASS PRES- ENT)	
FREEZE-SP		2	6.0 F	(FREEZE CONDITION SET- POINT)	
PMPOUT-EN		l	IS- BLE	(PUMP OUT ENABLE)	
LowAmbFanPreru Cool	LOWAMBFANPRERUN- COOL		0sec	(LOW AMBIENT FAN PRE-RUN TIME FOR COOLING)	
CLGMANUALTUNE		N	0	(Cooling Manual Tuning)	
LOWAMBSTART		N	0	(LOW AMBIENT START)	
4PIPEENA		N	0	(4 PIPE SPLIT ENABLE)	

MENU	▼ D	▼ Details		
SUB MENU	_	~ ▼Clq		
SUB MENU		▼Service		
SUB MENU		~ V Service		
STGCLGCMD	0%	(STAGED COOLING COMMAND)		
OPRCVCLG-SP	72 F	(CV COOLING SET PT IN USE)		
CLG-S	OFF-I			
OPROAT	73.0 F	(OPERATIONAL OUTDOOR AIR		
		TEMPERATURE)		
OPRST	73.0 F	(011102) 2111 2111 2111 2112 111 202,		
RAT	73 F	(UCB RAT THERMISTOR INPUT)		
ECON-FREE	No	(FREE COOLING AVAILABILITY)		
SAT	60.7 F			
YI-TSTAT	OFF	(24VAC INPUT TO YI TERM)		
Y2-TSTAT	OFF	(24VAC INPUT TO Y2 TERM)		
Y3-TSTAT	OFF	(24VAC INPUT TO Y3 TERM)		
Y4-TSTAT	OFF	(24VAC INPUT TO Y4 TERM)		
CN-FAN	OFF	(CN-FAN 24 VAC OUTPUT)		
CF2	OFF	(CF2 24 VAC output)		
MENU	▼Deta			
SUB MENU				
SUB MENU	<i>∽</i> V Se	rvice		
SUB MENU	◇VSt	age1©		
CI-S	OFF - IDLE	(COMPRESSOR STAGE STATUS)		
CI	OFF	(CI 24VACOUTPUTSTATUS)		
CIONTMR	I80 SEC	(CIMINRUNTIMEREMAIN)		
CIASCDTMR	300 SEC	(CI ASC TIMEREMAIN)		
CIRUNTIM	. 0 HR	(CI OUTPTACCUMRUNTIME)		
CI-EI	? %	(EFFICIENCY INDEX I)		
CI-CI	? F	(CAPACITY INDEX I)		
CI-CONDTEMPOV	RAMB	(CONDENSING TEMP OVER AMBIENT I)		
CI-EVAPTEMPVAL	LUE	(EVAP TEMP VALUE CIRCUIT I)		
CLGCKTTESTS-I		(COOLING CIRCUIT TEST STATUS)		
CI-SUPERHEAT		(SUPERHEAT)		
CI-SUBCOOL		(SUBCOOLING)		
MENU	▼ Detai	ls		
SUB MENU	ு ▼ Clg			
SUB MENU	∽ ▼ Ser	▼Service		
SUB MENU		ge 2≎		
C2-S	OFF - IDLE	(COMPRESSOR STAGE STATUS)		

MENU	▼Deta	ils	MENU	▼ Detai	ls
SUB MENU	<i>ټ</i> ▼Clg	I	SUB MENU	∽▼Clg	
SUB MENU	ົ ▼Sei	rvice	SUB MENU	ு ▼ Ser	vice
SUB MENU	ా▼Stage 2ౕ		SUB MENU	∽▼Stage 4∽	
C20nTmr	I80 SEC	(C2 MINRUNTIMEREMAIN)	C4-CONDTEMPO	VRAMB	(CONDENSING TEMP OVER AMBIENT 4)
C2ASCDTMR	300 SEC	(C2ASC TIMEREMAIN)	C4-EVAPTEMPVALUE		(EVAP TEMP VALUE CIRCUIT 4)
C2RUNTIM	.0 HR	(C2OUTPTACCUMRUNTIME)	CLGCKTTESTS-I		(COOLING CIRCUIT TEST STATUS)
C2-EI	? %	(Efficiency Index 2)	CI-SUPERHEAT		(SUPERHEAT)
C2-CI	? F	(CAPACITY INDEX 2)	CI-SUBCOOL		(SUBCOOLING)
C2-CONDTEMPO)VRAMB	(CONDENSING TEMP OVER AMBIENT 2)	MENU	▼ Deta	ails
C2-EVAPTEMPV	ALUE	(EVAP TEMP VALUE CIRCUIT 2)	SUB MENU	ټ▼Clo	
CLGCKTTESTS-	I	(Cooling Circuit Test Status)	SUB MENU	<i></i> ▽▼Se	
CI-SUPERHEAT		(SUPERHEAT)	ECI	42 F	(ECI THERMISTOR INPUT)
CI-SUBCOOL		(SUBCOOLING)	CCI	96 F	(CCI THERMISTOR INPUT)
MENU	▼ Deta	ils	SLP-I	70 1	(Suction Pressure I)
SUB MENU			LLP-I		(Liquid Pressure I)
SUB MENU	≎ ▼ Sei	rvice	SLT-I		(SUCTION TEMPERATURE I)
SUB MENU	∵ ▼Sta	age 3≎	LLT-I		(LIQUID TEMPERATURE I)
C3-S	OFF - IDLE		EC2	42 F	(EC2 THERMISTOR INPUT)
C3	OFF	(C3 24vacOutputStatus)	CC2	96 F	(CC2 THERMISTOR INPUT)
C30nTmr	180 SEC	(C3MINRUNTIMEREMAIN)	SLP-2		(Suction Pressure 2)
C3ASCDTMR	300 SEC	(C3 ASC TIMEREMAIN)	LLP-2		(Liquid Pressure 2)
C3RunTim	.0 HR	(C3 OUTPTACCUMRUNTIME)	SLT-2		(Suction Temperature 2)
C3-EI	? %	(Efficiency Index 3)	LLT-2		(LIQUID TEMPERATURE 2)
C3-CI	? F	(CAPACITY INDEX 3)	EC3	42 F	(EC3 THERMISTOR INPUT)
C3-CONDTEMP(OVRAMB	(CONDENSING TEMP OVER AMBIENT 3)	CC3	96 F	(CC3 THERMISTOR INPUT)
C3-EVAPTEMPV	ALUE	(EVAP TEMP VALUE CIRCUIT 3)	SLP-3		(Suction Pressure 3)
CLGCKTTESTS-	I	(COOLING CIRCUIT TEST STATUS)	LLP-3		(Liquid Pressure 3)
CI-SUPERHEAT		(SUPERHEAT)	SLT-3		(Suction Temperature 3)
CI-SUBCOOL		(SUBCOOLING)	LLT-3		(LIQUID TEMPERATURE 3)
MENU	▼ Deta	ils	EC4	42 F	(EC4 THERMISTOR INPUT)
SUB MENU	ټ ∀ Clg		CC4	96 F	(CC4 THERMISTOR INPUT)
SUB MENU	≎ ∀ Sei	<u> </u>	SLP-4		(Suction Pressure 4)
SUB MENU		age 4©	LLP-4		(Liquid Pressure 4)
C4-S	OFF - IDLE		SLT-4		(SUCTION TEMPERATURE 4)
C4-3	OFF - IDLE	(C4 24VACOUTPUTSTATUS)	LLT-4		(LIQUID TEMPERATURE 4)
C4OnTmr	180 SEC	(C4MinRuntimeRemain)	MENU	▼De	tails
C4ASCDTMR	300 SEC	(C4 ASC TIMEREMAIN)	SUB MENU	☞▼ (Clg
C4RUNTIM	.0 HR	(C4 OUTPTACCUMRUNTIME)	SUB MENU	◇▼	 Safeties≎
C4-EI	? %	(EFFICIENCY INDEX 4)	HPSI	Normal	(HPSI 24vac input status)
C4-CI	? F	(CAPACITY INDEX 4)	HPSI-LO	Normal	(HiPressi switch status)
J- 01		(CANADITY INDEX)		1	1

MENU ▼ Deta		nils				
SUB MENU	~▼Clo	∵ ▼Clq				
SUB MENU	∵ ▼Sa	feties <i>©</i>				
LPSI	Normal	(LPSI 24VAC INPUT STATUS)				
LPSI-LO	Normal	(LoPressi switch status)				
FSI	Normal	(FREEZE PROTECTI STATUS)				
FSI-LO	Normal	(FREEZE PROTECTI STATUS)				
HPS2	Normal	(HPS2 24vac input status)				
HPS2-LO	NORMAL	(HIPRESS2 SWITCH STATUS)				
LPS2	Normal	(LPS2 24vac input status)				
LPS2-LO	Normal	(LoPress2 switch status)				
FS2	Normal	(FREEZE PROTECT2 STATUS)				
FS2-LO	Normal	(FREEZE PROTECT2 STATUS)				
HPS3	Normal	(HPS3 24vac input status)				
HPS3-LO	Normal	(HIPRESS3 SWITCH STATUS)				
LPS3	Normal	(LPS3 34VAC INPUT STATUS)				
LPS3-LO	Normal	(LoPress3 switch status)				
FS3	Normal	(FREEZE PROTECT3 STATUS)				
FS3-L0	Normal	(FREEZE PROTECT3 STATUS)				
HPS4	Normal	(HPS4 44vac input status)				
HPS4-LO	Normal	(HIPRESS4 SWITCH STATUS)				
LPS4	Normal	(LPS4 44VAC INPUT STATUS)				
LPS4-LO	Normal	(LoPress4 switch status)				
FS4	Normal	(FREEZE PROTECT4 STATUS)				
FS4-LO	Normal	(FREEZE PROTECT4 STATUS)				
MENU	▼ Deta	ils				
SUB MENU	▽ ▼Clg					
SUB MENU		C				
MAXTEMPHUMS-	3.0 F	(MAXIMUM TEMPERATURE / HUMIDITY SETPOINT OFFSET)				
(TEMPHUM-SP)	50%H	(*EFFECTSOPRCLG-SP)				
TEMPHUMC-	No	(CNTRLOPERENABLE)				
TRL-EN						
(OPRSH)	49.6 %H)	(SPACE HUMIDITY IN USE)				
(CLGOCC-SP)	(72 F)	(CV - OCC COOLING SETPOINT)				
OPRCVCLG-SP	72 F	(CV - OPERATING COOL SET-				
TEMPHUMVALP- ERDEGOFF	5%H	(TEMPERATURE / HUMIDITY) VALUE PER DEGREE OFFSET)				
Legend						
DEFAULT SETTIN	IGS IN RED	(BLUE = UCB CONDITIONAL) (PARAMETER)				
(TAN = ECONOMIZER (PRESENCE)	BOARD	DKGREEN = ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION				

MENU		▼ Details			
SUB MENU		▽ ▼Htg			
SUB MENU		<td< td=""><td>etup<i>©</i></td></td<>	etup <i>©</i>		
HTG-EN		YES	(HEATING OPER ENABLED)		
#HTGSTGS		T	(# of Heating Stages)		
HTG-TYPE		STAGED	(HEATINGCONTROLMETHOD)		
CVHTGOcc-SP		68 F	(CV - OCC HEATING SET- POINT)		
CVHTGUNOCC-SF	5	60 F	(CV - UNOCC HEATING SETPOINT)		
HTGADAPTUNEN		YES	(HEATING AUTO TUNE ENABLE)		
SATHTGLIMIT-EN	1	YES	(SA HTGLIMITENABLED)		
SATHTGLIMIT-SF	•	135 F	(SA HTGLIMITSETPT)		
НтсОАТСитои	T-SP	75 F	(OUTDOOR AIR TEMP HEAT- ING CUTOUT SETPOINT)		
#GASVLVS		0	(#HTPMPSTGS = 0)		
#LIMSWTCHS		0	(#HTPMPSTGS = 0)		
LL_ENABLE		DISABLE	(LOW LIMIT ENABLE)		
LL_UPSAT_SP		80 F	(LOW LIMIT UPPER SAT SETPOINT)		
LL_LowSAT_S	Р	80 F	(LOW LIMIT LOWER SAT SETPOINT)		
HTGMANUALTU	NE	No	(HEATING MANUAL TUNING)		
MENU	▼ D	etails			
SUB MENU		Htg			
SUB MENU		Servi	ce 🗢		
STGHTGCMD	0%		(STAGED HEATING COMMAND)		
CVOPRHTG-SP	68 F		(CV - OPERATING HEAT SET-		
HTG-S	OFF-ID	DLE	(HEATING STATUS)		
OPROAT	73.0 F	5	(OPERATIONAL OUTDOOR AIR TEMPERATURE)		
OPRST	73.0 F	=)	(SPACE TEMPERATURE IN USE)		
RAT	70.4 F	•	(UCB RAT THERMISTORINPUT)		
WI-TSTAT	OFF		(24VAC INPUT TO WI TERM)		
W2-TSTAT	OFF		(24VAC INPUT TO W2 TERM)		
W3-TSTAT	OFF		(24VAC INPUT TO W3 TERM)		
G-TSTAT	OFF		(24VAC INPUT TO G TERM)		
HI-S	OFF-ID	DLE	(HEATING STAGE STATUS)		
HI	OFF		(IST STG HEAT OUTPUT STATUS)		
HIONTMR	0 SEC		(REMAINMINRUNTIME)		
HIASCDTMR	0 SEC)	(REMAIN ASCD TIME)		
HIRUNTIM	. 0 HF	2	(ACCUM HI RUNTIME)		

MENU	▼ Details					
SUB MENU		Htg				
SUB MENU	ু ▼ Servi			 ce♂		
H2	Off			(2ND STG HEATINGOUTPUTSA- TUS)		
H2-S	OFF-IDLE			(HEATING STAGE STATUS)		
H2OnTmr	0 SEC			(REMAIN MIN RUNTIME)		
H2ASCDTMR	0 SEC			(REMAIN ASCDTIME)		
H2RunTim	.0 HR			(Accum H2 RunTime)		
Н3	OFF			(3RD STG HEATINGOUTPUTSA- TUS)		
H3-S	OFF-IDL	E		(HEATING STAGE STATUS)		
H30nTmr	0 SEC			(REMAIN MIN RUNTIME)		
H3ASCDTMR	0 SEC			(REMAIN ASCDTIME)		
H3RunTim	.0 HR			(Accum H3 RunTime)		
MENU	▼De	tail	ls			
SUB MENU	∽▼Htg					
SUB MENU	⇔ ▼S	Safe	eti	es <i>♡</i>		
LIMIT	Normal ((LII	MIT 24VAC INPUT STATUS)		
LIMITLO	Normal		(HE	(HEAT LIMIT STATUS)		
LIM2	Normal		(LII	(LIMIT 24VAC INPUT STATUS)		
LIM2LO	Normal		(HE	EAT LIMIT STATUS)		
LIM3	Normal		(LIMIT 24VAC INPUT STATUS)			
LIM3LO	Normal		(HEAT LIMIT STATUS)			
GV2	OFF		(GV2 PIN 24VAC INPUT STATUS)			
GV3	OFF		(G\	/3,4 PIN 24VAC INPUT STATUS)		
MENU			De	etails		
SUB MENU		∽▼Htg				
SUB MENU						
SUB MENU		ுSetup்				
HYDHISA-SP		120	120 F (HYD HI SAT SETPT)			
HYDH2SA-SP		150	F	(HYD H2 SAT SETPT)		
SATTEMPHYDHT-EN		No		No(HYDHTGSA TEMPER)		
SATTEMPHYDHT-SP		40		(HYD HEAT TEMP SP)		
HYDREVERSE		No		(ModHt 2-10vdcAction)		
MENU	u ▼ De		ls			
SUB MENU						
SUB MENU						
SUB MENU			 ce≎			
CVHTGOcc-SP				(CV Occ HEATING SET POINT)		
311110000 01	1 00 1			TO COO FIENTING SET TOINT)		

MENU	▼ Details				
SUB MENU	Ф V H	tg			
SUB MENU	▽ ▼Pr	ор			
SUB MENU	∽ V Se	ervic	ce 🗢		
CVHTGUNOCC-SP	60 F	(CV U	NOCC COOLING SET POINT)		
CVOPRHTG-SP	68 F	(CV н	EATING SET PT IN USE)		
VAVOPRHTG-SP	68F	(VAV	OPERATING HEAT SETPOINT)		
OPR ST	73.0 F	(SPACE	TEMPERATURE IN USE)		
SAT	(60.7 F)	(S A 7	TEMP THERMISTER INPUT)		
WI-TSTAT	OFF	(24VA	C INPUT TO WI TERM)		
W2-TSTAT	OFF	(24VA	C INPUT TO W2 TERM)		
HWV	0%	(HWV	VDC output)		
HYDREVERSE	No	(ModH	IT 2-I0vdcAction)		
FSHW	Normal	()			
MENU	▼ De	tails			
SUB MENU	Ф ▼ F	an			
SUB MENU	ுSet	up <i>≎</i>	- -		
FANCTL-TYPE	SINGLE S	SPEED	(ID BLWR/UNIT OP MODE)		
FANON OCC	YES		(CV CONSTANT FAN IN OCCUPIED MODE)		
FANONDLYHEAT	30sec		(HEATFANONDELAY)		
FANOFFDLYHEAT	60sec		(HEATFANOFFDELAY)		
FANOFFSTARTHE- AT	YES		(FANOFF ATHEATSTART)		
FANONDLYCOOL	OSEC		(CoolFanOnDelay)		
FANOFFDLYCOOL	30SEC		(CoolFanOffDelay)		
FAN ONLY-% CMD	50%		(CV IS FAN ONLY)		
ICLGSTG-% CMD	70%		(CV IS I STG COOL)		
2CLGSTG-% CMD	80%		(CV IS 2 STG COOL)		
3CLGSTG-% CMDT	90%		(CV IS 3 STG COOL)		
4CLGSTG-% CMD	100%		(CV IS 4 STG COOL)		
IHTGSTG-%CMD	100%		(OCCUPIED: ONE STAGE OF HEAT % COMMAND)		
2HTGSTG-%CMD	CMD 100%		(Occupied: Two Stage of Heat % Command)		
3HTGSTG-%CMD	100%		(Occupied: Three Stage of Heat % Command)		
LOWAMBFANPRE- RUNCOOL	60 SEC				
APSSETUP	None		(AIR PROVING SWITCH OPERATION)		
DFS	Normal		(DFS 24VAC INPUT STATUS)		

SUB MENU	MENU ▼De Sub Menu ☞Fa		n			
SUB MENU		Servi	 ce	<i>♦</i>		
G-TSTAT	OFF		(24VAC INPUT TO G TERM)			
FAN-S	OLE (F		an Status)			
FAN	OFF		(FA	AN 24vac output status)		
FAN-RT	.0 HR		(A	CCUMULATED FAN RUNTIME)		
OPRFANREQ	OFF		(0	PERATING FAN REQUEST)		
FANREQSRC	LOCAL	INPUT	(F	AN REQUEST SOURCE)		
APS	OFF		(Al	PS INPUT STATUS)		
FANOVERLOAD	Normai	_	(F	ANOVRINPTSTATUS)		
FANVFDFLT	Normai	_	(Fl	_T24vacInptStatus)		
MENU		▼De	eta	ils		
SUB MENU		ټ ∀	Eco	on		
SUB MENU		ுSe	tu	p≎		
Econ-En		YES		(EconoFreeCoolingEn- ABLE)		
Econ-MinPos		10%		(ECONOMIZER MINIMUM POSITION SETPOINT)		
LowSpeedFan-I	MinPos	25%		(OccLoFanPos)		
LowAmb-MinPo	S	0%v		(OccLoAmbMinPos)		
LowAmb-Sp	0 F		(LoAmbMinPossSetPt)			
FREECLG-SEL		Аито		(FRECLGCHNGOVRMETHOD)		
FREECLG-MODE		DRY BULB		(CHNGOVERMODE)		
ALLCOMPOFF-E	Econ	No		(ALL COMPRESSORS OFF IN FREE COOLING)		
ECONOAT-SPEN		55 F		(DRYBLBCHGOVRSETPT)		
EconOAEnth-S	P	27 B/#		(ENTHCNGOVRSETPT)		
DVENT-MODE		DISABLED		(DMAND VENT MODE SELECT)		
DVENTMAXECON	ıPos	50%		(MAX ECON POSITION)		
DVENTIAQ-SP		1000ррм		(DEMAND VENT IAQ SETPT)		
DVENTDIFF-SP		600ррм		(IAQ-OAQ DIFFERENCE- SETPT)		
IAQRANGE	2000ррм		(ID SETPT W/Co2 SENSOR INST)			
OAQRANGE	2000РРМ		(OD SETPT W/Co2 SENSOR INST)			
ECONLOAD-EN	No		(ECONLOADINGENABLED)			
MOAFLOW-SP	I0CFM		(FRESH AIR INTAKE SET- POINT)			
MOA-RANGE	10000CFM		(FRESH AIR INTAKE MAX SENSOR RANGE)			
ECONMECHSTP	OPTION	В	(ECON MECH SETUP)			
ECONFLTDETE	CTEN	DISABLE		(ECON FAULT DETECTION EN)		

MENU	▼ Details				
SUB MENU	~ ▼Econ				
SUB MENU	∽▼Service≎				
				DLING STATUS)	
		ABLED	,		
Econ-Free	No		(FRE	EECOOLING AVAILABLE)	
Econ	0%		(EC	ON 2-10vdc output status)	
SAT	60.	7 F	(UC	B SAT THERMISTORINPUT)	
OPROAT	73.0) F	,	ERATIONAL OUTDOOR AIR TEM- ATURE)	
OA-ENTH	20	B/#	(Са	LCOA ENTHALPYINPUT)	
RA-ENTH	20B	3/#	(RA	ENTHALPY INPUT)	
OPRIAQ	477	PPM	(IND	OOR AIR QUALITY INPUT)	
OPROAQ	990)PPM	(Ou	TDOORAIRQUALITY IN USE)	
FR AIR	794	0CFM	(FRE	ESH AIR INTAKE ENABLE)	
EconDampPos	38		(AI-	IN 0-10vdc Input)	
ECONALRMDLY	600)SEC	(FD	D ECON ALARM DELAY)	
EconPosErr	ECONPOSERR 8%		(FDD Econ Damper Allow Error)		
ECONMINERR	CONMINERR 5%		(FDD DAMPER MIN POS TOLERANCE)		
MENU	▼ Details				
SUB MENU		$ \bigcirc $	Όν	vent <i>≎</i>	
Econ-En		YES		(EconoFreeCoolingEnable)	
DVENT-MODE		DISABLED		(DEMANDVENTIMODE)	
DVENTMAXECONP	'OS	s 50%		(IAQ Econ-MaxPos)	
DVENTIAQ-SP	1000PF		PM	(OccIAQEconOperSetPt)	
DVENTDIFF-SP		600PPM		(Occ DIFF IAQ/OAQ SETPT)	
IAQRANGE		2000ррм		(PPM@IOVDCIAQ OUTPUT)	
OAQRANGE		2000F	PM	(PPM@IOVDCOAQ OUTPUT)	
OPRIAQ		477PP	М	(IAQ 0-IOVDCINPUT IN USE)	
OPROAQ		990PF	M	(OUTDOORAIRQUALITY IN USE)	
EconDampPos		38		(AI-IN 0-I0VDC INPUT)	
MENU	7	Det	ail	S	
SUB MENU	Ó	■ V A	irM	onStation ~	
Econ-En	YE	S		(EconoFreeCoolingEnable)	
FRAIR-EN	Di	SABLE		(FRESH AIR INTAKE ENABLE)	
		CFM		(FRESH AIR INTAKE SETPOINT)	
		000CFN	1	(FRESH AIR INTAKE MAX SENSOR RANGE)	
FR AIR 79		53CFM		(FRESH AIR INTAKE ENABLE)	
EconDampPos	38	3		(AI-IN 0-IOVDC INPUT)	
CONTROL 4		.0CFM		(FRESH AIR RANGE)	

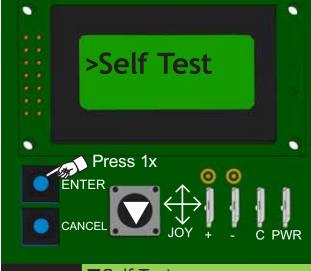
MENU		▼ Details			
SUB MENU	d	∽▼PowerEx			
SUB MENU		∽Setup <i></i> ≎			
EXFTYPE		NONE	(PWREXFANMODESELECTION)		
EconDmpPosFanOn		50%	(FANONPOSITION)		
EconDmpPosFanO	FF 2	20%	(FANOFFPOSITION)		
EXDMPPosFanOn	8	30%	(FANONPOSITION)		
EXDMPPosFanOFF	2	20%	(FANOFFPOSITION)		
BLDG-SP	1	00"/w	(ExDmprBldgPresSetPt)		
DCTPRS			(DUCT STATIC PRESSURE)		
MENU		7 De	tails		
SUB MENU	C	P	owerEx		
SUB MENU	C	₹S	Service <i>©</i>		
ExF-S	01	FF			
EXFAN	Oi	FF	(EX-FAN 24vacOutputStatus)		
BLDGPRES	.16	54"/W	(BLDGPRES 0-5VDC INPUT)		
EAD-O	09	%	(EXVFD2-I0vdcOutptStatus)		
EXFANVFD	09	%	(EX VFD2-I0vdc Output)		
EXFAN-RUNTIME		HR	(24vacOutputAccRunTime)		
EXFANVFDFLT		ORMAL	(VFD FLT24vacInput)		
MENU	V	Deta	ails		
SUB MENU	⊘ \	V Fa	nVFD		
SUB MENU	~ <u>S</u>	Setu	ıp <i>≎</i>		
FANCTL-TYPE	SING SPEE		(UNITOPMODE)		
DctPrs-Sp	1.50'	'/w	(VAV SUPPLYDUCTPRESS SETPOINT)		
DCTSHUTDOWNSP	4.5"	.			
		/W	(DUCTPRESSLIMIT)		
SATUP-SP	60 F	-c	(DUCTPRESSLIMIT) (VAV OCC UPPRCOOLING SAT SETPT)		
SATUP-SP SATLo-SP	60 F	-c	(VAV OCC UPPRCOOLING SAT		
		=c =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT		
SATLo-SP	55 F	=c =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET		
SATLO-SP SATRST-SP	55 F	= = = = = = = = = = = = = = = = = = =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT)		
SATLO-SP SATRST-SP VAVCLGUNOCC-SP	55 F 72 F 85 F	= = = = = = = = = = = = = = = = = = =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT) (FANCTL-TYPE = VARIABLE SPEED)		
SATLo-SP SATRST-SP VAVCLGUNOCC-SP MORNW-EN	55 F 72 F 85 F No	= = = = = = = = = = = = = = = = = = =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT) (FANCTL-TYPE = VARIABLE SPEED) (VAVMORNWRMUPENABLE)		
SATLO-SP SATRST-SP VAVCLGUNOCC-SP MORNW-EN MORNWRAT-SP	55 F 72 F 85 F No 71 F	=	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT) (FANCTL-TYPE = VARIABLE SPEED) (VAVMORNWRMUPENABLE) (MORNWRMUPRA SETPT)		
SATLO-SP SATRST-SP VAVCLGUNOCC-SP MORNW-EN MORNWRAT-SP HTGOCC-EN	55 F 72 F 85 F No 71 F YES	= = = = = = = = = = = = = = = = = = =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT) (FANCTL-TYPE = VARIABLE SPEED) (VAVMORNWRMUPENABLE) (MORNWRMUPRA SETPT) (VAV OCC HEATING ENABLED)		
SATLO-SP SATRST-SP VAVCLGUNOCC-SP MORNW-EN MORNWRAT-SP HTGOCC-EN VAVHTGOCC-SP	55 F 72 F 85 F No 71 F YES 85 F	=	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT) (FANCTL-TYPE = VARIABLE SPEED) (VAVMORNWRMUPENABLE) (MORNWRMUPRA SETPT) (VAV OCC HEATING ENABLED) (VAV OCC HEATING SETPOINT)		
SATLO-SP SATRST-SP VAVCLGUNOCC-SP MORNW-EN MORNWRAT-SP HTGOCC-EN VAVHTGOCC-SP HTGUNOCC-EN	55 F 72 F 85 F No 71 F YES 85 F	= = = = = = = = = = = = = = = = = = =	(VAV OCC UPPRCOOLING SAT SETPT) (VAV OCC LOWR COOLING SAT SETPT) (VAV OCC COOL SAT RESET SETPT) (FANCTL-TYPE = VARIABLE SPEED) (VAVMORNWRMUPENABLE) (MORNWRMUPRA SETPT) (VAV OCC HEATING ENABLED) (VAV OCC HEATING SETPOINT) (VAV UNOCC HEATING ENABLED)		

MENU		'Det	ai	ls	
SUB MENU	Ø	∽▼FanVFD			
SUB MENU		ுSetup்ு			
OPTSTRT-EN	No	No (OPTIMAL START ENABLED)	
EARLYSTRTPERIOD 6		60мін		EARLY START PERIOD)	
USEOCCSCHED Y		S	(L	JSE OCCUPANCY SCHEDULE)	
LPSI	No	RMAL	(L	_PSI 24vac input status)	
LPS2	No	RMAL	(L	_PS2 24vac input status)	
TIME					
TIME					
HTGOCC-EN	YE	S	(\	/AV OCC HEATING ENABLED)	
MENU		▼D	et	tails	
SUB MENU			F	anVFD	
SUB MENU			S	ervice&	
FANVFD		0%		(VFD 2-10 VDC output)	
DCTPRS		1.50"/v	٧	(DCT PRS 0-5vdcInput)	
DCTPRS-SP		1.5"/w		(DUCTPRESSLIMIT)	
OPRVAVCLG-SP		55 F		(VAV COOLING SAT SETPT IN USE)	
SAT	SAT			(UCB SAT THERMISTORIN- PUT)	
STGCLGCMD		0%		(STAGED COOLING COMMAND)	
CLG-S		YES		(Cooling Status)	
Econ-Free		No		(FREE COOLING AVAILABIL- ITY)	
CI		OFF		(UCB CI 24 VAC OUTPUT STATUS)	
C2		OFF		(DEMAND VENT SET POINT)	
C3		OFF		(4STG C3 24 VAC OUTPUT STATUS)	
C4		OFF		(4STG C4 24 VAC OUTPUT STATUS)	
VAVOPRHTG-SP	VAVOPRHTG-SP			(VAV HEATING SETPT IN USE)	
STGHTGCMD	0%		(STAGED HEATING COM- MAND)		
OPRST	73.0 F	=	(SPACE TEMPERATURE IN USE)		
HTG-S	OFF-		(HEATING STATUS)		
HI	OFF		(CV IS I STG HEAT)		
H2	OFF		(CV IS 2 STG HEAT)		
H3	OFF		(CV IS 3 STG HEAT)		
VAV Box	OFF		(VAV Box)		

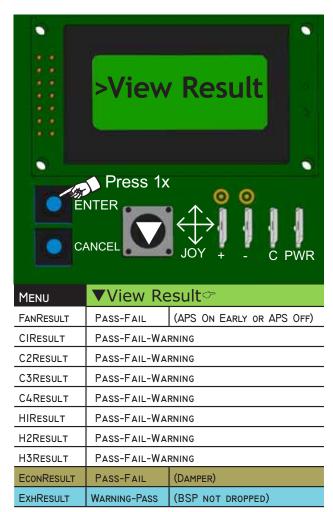
MENU	▼ Det	▼ Details			
SUB MENU	≎▼S	∇SZVAV			
SUB MENU	ுSet	:up♡			
SZVAVEN	No	(SINGLE ZONE VAV ENABLED)			
SZVAVMINFANSPI	66%	(MINIMUM FAN SPEED)			
SZVAVCLGOCC-SP	72 F	(SZ VAV Occ CLG SP)			
SZVAVCLGUNOCC-SP	85 F	(SZ VAV UNOCC CLG SP)			
VAVHTGOcc-SP	68 F	(VAV - OCC HEATING SETPOINT)			
VAVHTGUNOCC-SF	60 F	(VAV UNOCC HEATING SETPT)			
DATMAXHTGSP	105F	(DAT HEATING MAX SP)			
DATSATSP	70F	(DAT SATISFIED SP)			
DATCLGMINSP	54F	(DAT COOLING MIN SP)			
MENU	▼ Deta	ails			
SUB MENU	≎▼SZ	VAV			
SUB MENU	ີ√Se	rvice <i>©</i>			
OPRSZVAV- CLG-SP	72 F	(SZ VAV OPERATING CLG SP)			
SZVAVCLGLD	0%	(SZ VAV COOLING LOAD)			
SZVAVHTGLD		(SZ VAV HEATING LOAD)			
OPRVAVCLG-SP	60 F	(VAV OPERATING COOL SETPOINT)			
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)			
SAT	60.7 F	(SAT THERMISTOR INPUT)			
FANVFD	0%	(VFD 2-10vdc output status)			
Econ	0%	(ECON 2-10 VDC OUTPUT STATUS)			
CI	OFF	(IST COOL 24 VAC OUTPUT)			
C2	OFF	(2ND+ COOL 24 VAC OUTPUT)			
C3	OFF	(3RD+ COOL 24 VAC OUTPUT)			
C4	OFF	(4TH+ COOL 24 VAC OUTPUT)			
MENU	▼ Deta	▼ Details			
SUB MENU	∽▼HGR				
MENU	∽Setup <i>∽</i>				
HGR-EN	No	(HOT GAS REHEAT ENABLED)			
HGRALT-EN	No	(HGR ALTERNATE ENABLED)			
HGRALTWRITE	No	(HGR ALTERNATE WRITEABLE)			
HGRHum-Sp	60DEGF	(HOT GAS REHEAT HUMIDIDTY SETPOINT)			
HGRUNOCC-EN	YES	(HGR UNOCC ENABLED)			
HGRUNOC- CHUM-SP	70degF	(HGR UNOCC HUM SP)			
HGR-DIFF	3%	(HGR HUMIDITY SETPOINT DIFFERENTIAL)			
Mode		(AUX MODE)			

MENU		▼ Details			
SUB MENU		→ ▼HGR			
MENU		ث√Se	ervice 🗢		
STGCLGCMD		0%	(STAGED COOLING COMMAND)		
OPRCVCLG-SP		72 F	(CV COOLING SET PT IN USE)		
OPRST		73.0 F	(SPACE TEMPERATURE IN USE)		
HGRHum-Sp		60F	(HOT GAS REHEAT HUMIDIDTY SETPOINT)		
OPRSH		49.6 %H	(SPACE HUMIDITY IN USE)		
HGR-S		OFF-DIS- ABLED	(HGR STATUS)		
HGR		OFF	(HOT GAS REHEAT)		
CI		OFF	(CI 24VACOUTPUTSTATUS)		
C2		OFF	(UCB CI 24 VAC OUTPUT STATUS)		
C3		OFF	(C3 24vacOutputStatus)		
C4		OFF	(4STG C4 24 VAC OUTPUT STATUS)		
RAH		(49.6 %H)	(R A HUMIDITY 0-10 VDC INPUT)		
MENU		Details			
_		▼ Hea	t Pmp∽		
#HTPUMPSTGS	0		(# OF HEAT PUMPS)		
TESTDEFROST- ENABLE	No		(TEST DEFROST ENABLE)		
COMPDELAY- ENABLE	No		(COMPRESSOR DELAY ENABLE)		
DEFROSTCUR- VESEL	Cui	RVE I	(DEFROST CURVE SELECT)		
REvVLv	OFI	F	(REVERSING VALVE)		
AUXHTG	OFI	F	(Auxiliary Heat)		
Mode	Co	OLING	(Mode)		
MENU		▼Det	ails		
SUB MENU		~▼E	RV-En <i>≎</i>		
ERV-EN		No	(Econ&PwrExIntrgrationW/		
ERVUNOCCFAN-EN			(ERV UNOCCUPIED FAN ENABLED)		
FANCTL-TYPE		SINGLE SPEED	(UNITOPMODE)		
FAN		OFF	(UCB FAN 24 VAC OUTPUT STATUS)		
ECON-FREE		No	(FREECOOLING AVAILABLE)		
EXFAN		OFF	(EX-FAN 24 VAC OUTPUT)		

MENU	▼ Details				
SUB MENU	▽ ▼T	24LoadShed 🗢			
LOADSHEDRATELIM	.066	(RATE LIMITER)			
LOADSHEDADJUST	4.0 F	(LOAD SHED ADJUST)			
LOADSHEDENABLE	No	(LOAD SHED ENABLE)			



MENU	▼ Self Test♡
START	(BEGINS THE SELF TEST SEQUENCE)
Pause	(CAUSES THE SEQUENCE TO HOLD ANY OUTPUTS ON FOR IO MINUTES.)
CANCEL	(STOPS THE SELF TEST SEQUENCER AND RETURNS THE SEC TO NORMAL OPERATION.)
TESTSTATUS	(DISPLAYS CURRENT STATE OF THE SELF TEST SEQUENCER)
RESET	(ERASES THE PREVIOUS SELF TEST RESULTS AND PREPARES THE SELF TEST SEQUENCER FOR ANOTHER TEST RUN)



END OF MENU